

Comparisons of Job Characteristics

Focus Occupation: Electronics Engineers, Except Computer (17-2072)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Electronics Engineers, Except Computer (17-2072)

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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	17.5	19.7	> Current knowledge level is likely sufficient
Mechanical	6.8	16.4	9.9	<< Extensive education and/or training may be required
Engineering and Technology	5.7	11.7	20.8	>> Current knowledge level is likely more than sufficient
Design	5.2	9.6	20.6	>> Current knowledge level is likely more than sufficient
Telecommunications	3.9	6.9	7.2	0 Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 36

Focus Occupation: Electronics Engineers, Except Computer (17-2072)

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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Quality Control Analysis	5.9	13.3	11.1	< A higher skill level may be required
Repairing	3.4	13.3	8.6	<< Extensive development of skills in this area may be required
Operation Monitoring	6.6	12.6	10.8	< A higher skill level may be required
Troubleshooting	4.5	12.0	10.0	< A higher skill level may be required
Equipment Maintenance	3.5	11.1	7.2	<< Extensive development of skills in this area may be required
Equipment Selection	3.3	10.5	9.0	< A higher skill level may be required

Installation	1.7	9.3	2.3	<<	Extensive development of skills in this area may be required
Technology Design	2.6	6.3	8.1	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 76

Focus Occupation: Electronics Engineers, Except Computer (17-2072)

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Finger Dexterity	7.6	12.9	10.5	<	Some improvement in abilities may be required
Category Flexibility	9.0	11.9	11.6	0	Current ability level may be sufficient
Manual Dexterity	6.5	11.2	7.0	<<	Extensive improvement in abilities may be required
Flexibility of Closure	7.8	11.0	9.8	<	Some improvement in abilities may be required
Perceptual Speed	7.4	10.7	8.0	<<	Extensive improvement in abilities may be required
Visual Color Discrimination	6.4	10.6	10.7	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	9.3	6.7	<<	Extensive improvement in abilities may be required
Speed of Closure	5.9	8.8	7.6	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 68

Focus Occupation: Electronics Engineers, Except Computer (17-2072)

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Work Activities	Exclusivity of Activity
Analyze technical data, designs, or preliminary specifications	47
Communicate technical information	4
Confer with engineering, technical or manufacturing personnel	25
Determine specifications	67
Read blueprints	10
Read schematics	34
Read technical drawings	7
Understand detailed electronic design specifications	70
Use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks	58
Use computers to enter, access or retrieve data	3

Use electrical or electronic test devices or equipment	40
Work as a team member	36

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 72

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Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Electrical measuring and testing equipment	7
Electronic and communication measuring and testing instruments	14
Finance accounting and enterprise resource planning ERP software	2
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Integrated circuits	18
Light and wave generating and measuring equipment	4
Network applications software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.